

**SM 3H odd answers 2.3 Solving Rational and Radical Equations**

1. No restrictions  $x=-1$

3.  $x \neq 0$   $x=3,4$

5.  $x \neq 0, -2$   $x=-2, 0$  both extraneous no real solution

7.  $x \neq 0, -1$   $x = \frac{1}{2}, x = -1$  *extraneous*

8.  $x \neq 1$   $x = 3 \pm \sqrt{2}$

9.  $x \geq -\frac{1}{4}$ ,  $x=6$

11.  $x \geq 0$   $x=1$

13. No restrictions  $x=100$

15.  $x \geq 0$ ,  $x = 0, 1$

17.  $x=5, -11$ ,

19.  $x=1$ ,  $x=-2$  extraneous

21.  $x = 4 \pm 5\sqrt{5}$

23.  $x=9, -7$

25.  $\frac{x-2}{x^2-2x+4}$

27.  $\frac{4y^2}{z^2}$

29.  $\frac{-(x-3)(x+1)}{(x+3)(x-2)}$